Fig. 1

```
    E    V    Q    L    L    E    Q    P    G    A
  GAGGTGCAGCTGCTCGAGCAGCCTGGGGCT      30

    E    L    A    K    P    G    A    S    V    K
  GAACTGGCAAAACCTGGGGCCTCAGTGAAG      60

    M    S    C    K    A    S    G    Y    T    F
  ATGTCCTGCAAGGCTTCTGGCTACACCTTT      90

    T    N    Y    W    I    H    W    V    K    Q
  ACTAACTACTGGATTCACTGGGTGAAACAG     120

    R    P    G    Q    G    L    K    W    I    G
  AGGCCTGGACAGGGTCTGAAATGGATTGGA     150

    Y    I    N    P    A    T    G    S    T    S
  TACATTAATCCTGCCACTGGTTCCACTTCT     180

    Y    N    Q    D    F    Q    D    R    A    T
  TACAATCAGGACTTTCAGGACAGGGCCACT     210

    L    T    A    D    K    S    S    T    T    A
  TTGACCGCAGACAAGTCCTCCACCACAGCC     240

    Y    M    Q    L    T    S    L    T    S    E
  TACATGCAGCTGACCAGCCTGACATCTGAG     270

    D    S    S    V    Y    Y    C    A    R    E
  GACTCTTCAGTCTATTACTGTGCAAGAGAG     300

    G    Y    D    G    F    D    S    W    G    Q
  GGGTACGACGGGTTTGACTCCTGGGGCCAA     330

    G    T    T    L    T    V    S    S
  GGCACCACTCTCACAGTCTCCTCA          360
```

Fig. 2

```
     E    L    V    L    T    Q    S    P    A    I
    GAGCTCGTGCTCACCCAGTCTCCAGCAATC              30

     M    S    A    S    P    G    E    K    V    T
    ATGTCTGCATCTCCAGGGGAGAAGGTCACC              60

     M    T    C    S    A    S    S    S    V    N
    ATGACCTGCAGTGCCAGCTCAAGTGTAAAT              90

     Y    M    Y    W    Y    Q    Q    K    S    G
    TACATGTACTGGTACCAGCAGAAGTCAGGC             120

     T    S    P    K    R    W    I    Y    D    T
    ACCTCCCCCAAAAGATGGATTTATGACACA             150

     S    K    L    A    S    G    V    P    A    R
    TCCAAATTGGCTTCTGGAGTCCCTGCTCGC             180

     F    S    G    S    G    S    G    T    S    Y
    TTCAGTGGCAGTGGGTCTGGACCTCTTAC              210

     S    L    T    L    S    S    M    E    A    E
    TCTCTCACACTCAGCAGCATGGAGGCTGAA             240

     D    A    A    T    Y    Y    C    Q    Q    W
    GATGCCGCCACTTATTACTGCCAGCAGTGG             270

     S    S    N    P    Y    T    F    G    G    G
    AGTAGTAATCCGTACACGTTCGGAGGGGGG             300

     T    K    L    E    I    K
    ACCAAGCTGGAGATAAAA                         330
```

Fig. 3

```
+1    E   V   Q   L   Q   Q   S   G   A   E
      GAGGTTCAGCTGCAGCAGTCTGGGGCAGAG  30

+1    L   V   K   P   G   A   S   V   K   L
      CTTGTGAAGCCTGGGGCCTCAGTCAAGTTG  60

+1    S   C   T   S   S   G   F   N   I   K
      TCCTGCACATCTTCTGGCTTCAACATTAAA  90

+1    D   T   Y   V   H   W   M   K   Q   R
      GACACCTATGTGCACTGGATGAAACAGAGG  120

+1    P   E   Q   G   L   E   W   I   G   K
      CCTGAACAGGGCCTGGAGTGGATTGGAAAG  150

+1    I   D   P   A   N   G   K   T   K   Y
      ATTGATCCTGCGAATGGTAAAACTAAATAT  180

+1    D   P   I   F   Q   A   K   A   T   M
      GACCCGATATTCCAGGCCAAGGCCACTATG  210

+1    T   A   D   A   S   S   N   T   A   Y
      ACAGCAGACGCATCCTCCAATACAGCCTAC  240

+1    L   Q   L   S   S   L   T   S   E   D
      CTGCAACTCAGCAGCCTGACTTCTGAGGAC  270

+1    T   A   V   Y   Y   C   A   L   P   I
      ACTGCCGTCTATTACTGTGCTCTCCCCATT  300

+1    Y   Y   A   S   S   W   F   A   Y   W
      TATTACGCTAGTTCCTGGTTTGCTTACTGG  330

+1    G   Q   G   T   L   V   T   V   S   A
      GGCCAAGGGACTCTGGTCACTGTCTCTGCA  360
```

Fig. 4

+1   D I V M T Q S H K F

GACATTGTGATGACCCAGTCTCACAAATTC 30

+1   M S T S V G D R V S

ATGTCCACATCAGTAGGAGACAGGGTCAGC 60

+1   I T C K A S Q D V G

ATCACCTGC<u>AAGGCCAGTCAGGATGTGGGT</u> 90

+1   T S V A W Y Q Q K P

<u>ACTTCTGTTGCC</u>TGGTATCAACAGAAACCT 120

+1   G H S P K L L I Y W

GGGCACTCCTAAATTACTGATTTAC<u>TGG</u> 150

+1   T S T R H T G V P D

<u>ACATCCACCCGGCACACT</u>GGAGTCCCTGAT 180

+1   R F T G S G S G T D

CGCTTCACAGGCAGTGGATCTGGACAGAT 210

+1   F I L T I S N V Q S

TTCATTCTCACCATTAGCAATGTGCAGTCT 240

+1   E D L A D Y F C Q Q

GAAGACTTGGCAGATTATTTCTGT<u>CAGCAA</u> 270

+1   Y S S S P T F G G G

<u>TATAGCAGCTCTCCCACG</u>TTCGGAGGGGGG 300

+1   A K V E I K

GCCAAGGTGGAAATAAAA 330

+1
D   I   L   L   T   Q   S   P   A   I   L   S   V   S   P   G   E
GACATCTTGC TGACTCAGTC TCCAGCCATC CTGTCTCTGA GTCCAGGAGA 50
R   V   S   F   S   C   R   A   S   Q   S   I   G   T   R   I   H

+1
AAGAGTCAGT TTCTCCTGCA GGGCCAGTCA GAGCATTGGC ACAAGAATAC 100
W   Y   Q   Q   R   T   N   G   S   P   R   L   L   I   K   Y

+1
ACTGGTATCA ACAAAGAACA AATGGTTCTC CAAGGCTTCT CATAAAGTAT 150
G   S   E   S   I   S   G   I   P   S   R   F   S   G   S   G   S

+1
GGTTCTGAGT CTATCTCTGG GATCCCCTTCC AGGTTTAGTG GCAGTGGATC 200
L   S   I   N   S   V   E   S   E   D   I   A

+1
AGGGACAGAT TTTAGTCTTA GCATCAACAG TGTCGAGTCT GAAGATATTG 250
D   Y   Y   C   Q   Q   S   N   T   W   P   L   T   F   G   A

+1
CAGATTATTA CTGTCAACAA AGTAATACCT GGCCGCTCAC GTTCGGGTGCT 300
G   T   K   L   E   L   K

+1
GGGACCAAGC TGGAGCTGAA A 350

Fig. 5

```
+1   E    V    Q    L    L    E    E    S    G    G    G    L    V    K    P    G    G
     GAGGTGCAGC TGCTCGAGGA GTCTGGGGGA GGCTTAGTGA AGCCTGGAGG   50

+1   S    L    Q    L    S    C    S    A    S    G    F    T    F    S    S    H    F
     GTCCCTGCAA CTCTCCTGTT CAGCCTCTGG ATTCACTTTC AGTAGCCATT  100

+1   M    S    W    V    R    Q    T    P    E    K    R    L    E    W    V    A
     GGTTCGCCAA ACTCCAGAGA AGAGGCTGGA GTGGGTCGCA  150

+1   S    I    S    S    G    G    D    S    F    Y    P    D    S    L    K    G    R
     TCCATTAGTA GTGGTGGTGA CAGTTTCTAT CCAGACAGTC TGAAGGGCCG  200

+1   F    A    I    S    R    D    N    A    R    N    I    L    F    L    Q    M    S
     ATTCGCCATC TCCAGAGATA ATGCCAGGAA CATCCTGTTC CTGCAAATGA  250

+1   S    L    R    S    E    D    S    A    M    Y    F    C    T    R    D    Y
     GCAGTCTGAG GTCTGAGGAC TCGGCCATGT ATTTCTGTAC AAGAGACTAC  300

+1   S    W    Y    A    L    D    Y    W    G    Q    G    T    S    V    T    V    S
     TCTTGGTATG CTTTGGACTA CTGGGGTCAA GGAACCTCAG TCACCGTCTC  350

+1   S
     CTCA                                                      400
```

Fig. 8

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```
                E    L    Q    M    T    Q    S         P    S    S    L    S    A    S    L    G    D
+1    GAGCTCCAGA TGACCCAGTC TCCATCCAGT CTGTCTGCAT CCCTTGGAGA 50

      T    I    T    C    H    A    S    Q    N    I    N    V    W    L
+1    CACAATTACC ATCACTTGC ATGCCAGTCA GAACATTAAT GTTTGGTTAA 100

                                        W    Y    Q    K    P    G    D    I    P    K    L    L    I    Y    K
+1    GCTGGTATCA GCAGAAACCA GGAGATATCC CTAAACTATT GATCTATAAG 150

      A    S    N    L    H    T    G    V    P    S    R    F    S    G    S    G    S
+1    GCTTCCAACT TGCACACAGG CGTCCCATCA AGGTTTAGTG GCAGTGGATC 200

      G    T    G    F    T    L    V    I    S    S    L    Q    P    E    D    I    A
+1    TGGAACAGGT TTCACATTAG TCATCAGCAG CCTGCAGCCT GAAGACATTG 250

      T    Y    Y    C    Q    Q    G    R    S    Y    P    L    T    F    G    A
+1    CCACTTACTA CTGTCAACAG GGTCGGAAGT ATCCTCTCAC GTTCGGTGCT 300

      G    T    K    L    E    L    K
+1    GGGACCAAGC TGGAGCTGAA A                                350
```

Fig. 7

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+1 E   V   Q   L   L   E   Q   S   G   A   E   L   V   K   P   G   A
GAGGTGCAGC TGCTCGAGCA GTCTGGAGCT GAGCTGGTGA AGCCTGGGGC   50

+1 S   V   K   I   S   C   K   A   S   G   Y   A   F   S   T   S   W
CTCAGTGAAG ATTTCCTGCA AGGCTTCTGG CTACGCATTC AGTACCTCCT   100

+1 M   N   W   V   K   Q   R   P   G   K   G   L   E   W   I   G
GGTGAAACAG AGGCCTGGAA AGGGTCTTGA GTGGATTGGA   150

+1 R   I   Y   P   G   D   G   D   T   N   Y   N   G   K   F   K   G
CGGATTTATC CTGGAGATGG AGATACTAAC TACAATGGGA AGTTCAAGGG   200

+1 K   A   T   L   T   A   D   K   S   S   S   T   A   Y   M   Q   L
CAAGGCCACA CTGACTGCAG ACAAATCCTC CAGCACAGCC TACAATGCAAC   250

+1 N   S   L   T   S   E   D   S   A   V   Y   F   C   V   R   E
TCAACAGCCT GACATCTGAG GACTCTGCGG TCTACTTCTG TGTAAGAGAG   300

+1 D   A   Y   Y   S   N   P   Y   S   L   D   Y   W   G   Q   G   T
GATGCCTATT ATAGTAACCC CTATAGTTTG GACTACTGGG GTCAAGGAAC   350

+1 S   V   T   V   S   S
CTCAGTCACC GTCTCCTCA   400

Fig. 6

Fig. 9

Eradikationsverlauf von Patient CXT0002